



OST

Eastern Switzerland
University of Applied Sciences

Distributed Systems (DSy)

Admin

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Nr	Date Rapperswil	Date St.Gallen	Lecture*	Lecturer
01	19.02.2024	21.02.2024	Admin, Introduction / Motivation	Bocek
02	26.02.2024	28.02.2024	Introduction	Bocek
03	04.03.2024	06.03.2024	Load Balancing	Bocek
04	11.03.2024	13.03.2024	Containers and VMs	Bocek
05*	18.03.2024	-	Categorization, Debugging Containers	Bocek
06	25.03.2024	27.03.2024	Monorepos / Polyrepos	Bocek
05*	-	03.04.2024	Categorization, Debugging Containers	Bocek
-	-	-	-	-
07	15.04.2024	17.04.2024	Interview, Authentication	Bocek / Tuck
08	22.04.2024	24.04.2024	Protocols	Bocek
09*	29.04.2024	-	Web Architectures	Bocek
10	06.05.2024	08.05.2024	Deployment / Mail Infrastructure, Exam preparation	Bocek
11	13.05.2024	15.05.2024	Blockchain, Bitcoin, Ethereum Introduction, Smart Contracts	Bocek
09*	-	22.05.2024	Web Architectures	Bocek
12	27.05.2024	29.05.2024	Challenge Task Presentations	you
13	03.06.2024	05.06.2024	Challenge Task Award Winner Announcement, Q&A	Bocek

* topics may change

Questions

- 1 May – no DSy in St.Gallen
- This lecture in depth architectures, especially around hands-on docker/docker-compose
- Next time: deployment + mail
- Testing local LLMs
 - This time: codeqwen-1_5-7b-chat-q8_0.gguf
 - Next time: llama-3-8b-instruct.Q8_0.gguf
- Censored... not sure what else is censored

- **Benchmarks:** I don't know....

⚡EvalPlus Tests⚡

#	Model	pass@1
1	🦙GPT-4-Turbo (April 2024)⚡	⚡86.6
2	🦙GPT-4-Turbo (Nov 2023)⚡	⚡81.7
3	🦙GPT-4 (May 2023)⚡	⚡79.3
4	CodeQwen1.5-7B-Chat⚡	⚡78.7
5	claude-3-opus (Mar 2024)⚡	⚡76.8
6	DeepSeek-Coder-33B-instruct⚡	⚡75
7	OpenCodeInterpreter-DS-33B⚡❤️	⚡73.8
8	WizardCoder-33B-V1.1⚡	⚡73.2
9	Artigenz-Coder-DS-6.7B⚡	⚡72.6
10	OpenCodeInterpreter-DS-6.7B⚡❤️	⚡72
11	speechless-codellama-34B-v2.0⚡❤️	⚡72
12	DeepSeek-Coder-7B-instruct-v1.5⚡	⚡71.3
13	MagiCoder-S-DS-6.7B⚡❤️	⚡71.3
14	DeepSeek-Coder-6.7B-instruct⚡	⚡70.7
15	GPT-3.5-Turbo (Nov 2023)⚡	⚡70.7

Base Tests

#	Model	pass@1
1	🦙GPT-4-Turbo (April 2024)⚡	90.2
2	🦙GPT-4 (May 2023)⚡	88.4
3	🦙GPT-4-Turbo (Nov 2023)⚡	85.4
4	CodeQwen1.5-7B-Chat⚡	83.5
5	claude-3-opus (Mar 2024)⚡	82.9
6	DeepSeek-Coder-33B-instruct⚡	81.1
7	WizardCoder-33B-V1.1⚡	79.9
8	OpenCodeInterpreter-DS-33B⚡❤️	79.3
9	OpenCodeInterpreter-DS-6.7B⚡❤️	77.4
10	speechless-codellama-34B-v2.0⚡❤️	77.4
11	GPT-3.5-Turbo (Nov 2023)⚡	76.8
12	MagiCoder-S-DS-6.7B⚡❤️	76.8
13	claude-3-haiku (Mar 2024)⚡	76.8
14	Llama3-70B-instruct⚡	76.2
15	Artigenz-Coder-DS-6.7B⚡	75.6